Fig. 1

Fig. 2

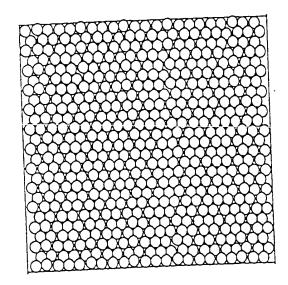
$$(C_2H_5O)_3S_i$$

NH-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-S<sub>i</sub>(OC<sub>2</sub>H<sub>5</sub>)<sub>3</sub>

+

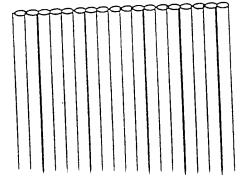
HO-S<sub>i</sub>

HO-S<sub>i</sub>



Top view

Fig. 3A



Side view

DNA 
$$+$$
  $X-R-Si-R_2$   $R_3$   $R_3$   $R_3$   $R_3$   $R_4$   $R_5i-R_2$   $R_5$   $R_$ 

Where R is a linker, R1, R2 and R3 can be : -OCH3, OC2H5, CI; X=CI, Br, or I

$$H_{2}N$$
 $N$ 
 $H_{2}N$ 
 $N$ 
 $H_{2}N$ 
 $H_{2}N$ 
 $H_{2}N$ 
 $H_{2}N$ 
 $H_{2}N$ 
 $H_{2}N$ 
 $H_{2}N$ 
 $H_{2}N$ 
 $H_{3}N$ 
 $H_{4}N$ 
 $H_{2}N$ 
 $H_{3}N$ 
 $H_{4}N$ 
 $H_{5}N$ 
 $H_$ 

Guanine Residue N-Bromosuccinimide

Bromine activated guanine

Figure 5a

Figure 5b

Figure 5c

FIGURE 7